

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/552,158
Source: PCT
Date Processed by STIC: 10/24/2005

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/24/05



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/552,158

DATE: 10/24/2005

TIME: 10:47:45

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

4 <110> APPLICANT: Xenon Pharmaceuticals Inc.
 6 <120> TITLE OF INVENTION: Juvenile Hemochromatosis Gene (HFE2A), Expression Products
 7 and Uses Thereof
 9 <130> FILE REFERENCE: 760050-134
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/552,158
 C--> 12 <141> CURRENT FILING DATE: 2005-10-12
 14 <150> PRIOR APPLICATION NUMBER: 60/462,867
 15 <151> PRIOR FILING DATE: 2003-04-15
 17 <150> PRIOR APPLICATION NUMBER: 60/488,607
 18 <151> PRIOR FILING DATE: 2003-07-18
 20 <150> PRIOR APPLICATION NUMBER: 60/498,458
 21 <151> PRIOR FILING DATE: 2003-08-28
 23 <160> NUMBER OF SEQ ID NOS: 62 → OK
 25 <170> SOFTWARE: PatentIn version 3.0

Does Not Comply
 Corrected Diskette Needed
 (P0-13,6-10)

Insert hard
 returns.

 ERRORLED SEQUENCES

E--> 934 <210> SEQ ID NO: 25 ← <211> 420 ← <212> PRT ← <213> Mus musculus ← <400> 25
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 E--> 936 <212> TYPE:
 E--> 936 <213> ORGANISM:
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 940 20 25 30
 942 Gln Cys Lys Ile Leu Arg Cys Asn Ala Glu Tyr Val Ser Ser Thr Leu
 943 35 40 45
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 946 50 55 60
 948 Gly Gly Leu Ala Ser Gly Gly Leu Cys Arg Ala Leu Arg Ser Tyr Ala
 949 65 70 75 80
 951 Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp Leu Ala Phe
 952 85 90 95
 954 His Ser Ala Val His Gly Ile Glu Asp Leu Met Ile Gln His Asn Cys
 955 100 105 110
 957 Ser Arg Gln Gly Pro Thr Ala Pro Pro Pro Ala Arg Gly Pro Ala Leu
 958 115 120 125
 960 Pro Gly Ala Gly Pro Ala Pro Leu Thr Pro Asp Pro Cys Asp Tyr Glu
 961 130 135 140
 963 Ala Arg Phe Ser Arg Leu His Gly Arg Ala Pro Gly Phe Leu His Cys
 964 145 150 155 160

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966 Ala Ser Phe Gly Asp Pro His Val Arg Ser Phe His Asn Gln Phe His
967          165          170          175
969 Thr Cys Arg Val Gln Gly Ala Trp Pro Leu Leu Asp Asn Asp Phe Leu
970          180          185          190
972 Phe Val Gln Ala Thr Ser Ser Pro Val Ser Ser Gly Ala Asn Ala Thr
973          195          200          205
975 Thr Ile Arg Lys Ile Thr Ile Ile Phe Lys Asn Met Gln Glu Cys Ile
976          210          215          220
978 Asp Gln Lys Val Tyr Gln Ala Glu Val Asp Asn Leu Pro Ala Ala Phe
979 225          230          235          240
981 Glu Asp Gly Ser Ile Asn Gly Gly Asp Arg Pro Gly Gly Ser Ser Leu
982          245          250          255
984 Ser Ile Gln Thr Ala Asn Leu Gly Ser His Val Glu Ile Arg Ala Ala
985          260          265          270
987 Tyr Ile Gly Thr Thr Ile Ile Ile Arg Gln Thr Ala Gly Gln Leu Ser
988          275          280          285
990 Phe Ser Ile Arg Val Ala Glu Asp Val Ala Arg Ala Phe Ser Ala Glu
991          290          295          300
993 Gln Asp Leu Gln Leu Cys Val Gly Gly Cys Pro Pro Ser Gln Arg Leu
994 305          310          315          320
996 Ser Arg Ser Glu Arg Asn Arg Arg Gly Ala Ile Ala Ile Asp Thr Ala
997          325          330          335
999 Arg Arg Leu Cys Lys Glu Gly Leu Pro Val Glu Asp Ala Tyr Phe Gln
1000          340          345          350
1002 Ser Cys Val Phe Asp Val Ser Val Ser Gly Asp Pro Asn Phe Thr Val
1003          355          360          365
1005 Ala Ala Gln Thr Ala Leu Asp Asp Ala Arg Ile Phe Leu Thr Asp Leu
1006          370          375          380
1008 Glu Asn Leu His Leu Phe Pro Ser Asp Ala Gly Pro Pro Leu Ser Pro
1009 385          390          395          400
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1015          420
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1020 <212> TYPE: PRT
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1028          20          25          30
1030 Ala His Ser Gln Cys Lys Ile Leu Arg Cys Asn Ala Glu Tyr Val Ser
1031          35          40          45
1033 Phe Thr Leu Ser Leu Arg Gly Gly Gly Ser Pro Asp Thr Pro Arg Gly
1034          50          55          60
1036 Gly Gly Arg Gly Gly Pro Ala Ser Gly Gly Leu Cys Arg Ala Leu Arg
1037 65          70          75          80

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1039 Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp
1040                               85                               90                               95
1042 Leu Ala Phe His Ser Ala Val His Gly Ile Glu Asp Leu Met Ile Gln
1043                               100                              105                              110
1045 His Asn Cys Ser Arg Gln Gly Pro Thr Ala Ser Pro Pro Ala Arg Gly
1046                               115                              120                              125
1048 Pro Ala Leu Pro Gly Ala Gly Pro Ala Pro Leu Thr Pro Asp Pro Cys
1049                               130                              135                              140
1051 Asp Tyr Glu Ala Arg Phe Ser Arg Leu His Gly Arg Thr Pro Gly Phe
1052 145                               150                              155                              160
1054 Leu His Cys Ala Ser Phe Gly Asp Pro His Val Arg Ser Phe His Asn
1055                               165                              170                              175
1057 His Phe His Thr Cys Arg Val Gln Gly Ala Trp Pro Leu Leu Asp Asn
1058                               180                              185                              190
1060 Asp Phe Leu Phe Val Gln Ala Thr Ser Ser Pro Val Ala Ser Gly Ala
1061                               195                              200                              205
1063 Asn Ala Thr Thr Ile Arg Lys Ile Thr Ile Ile Phe Lys Asn Met Gln
1064                               210                              215                              220
1066 Glu Cys Ile Asp Gln Lys Val Tyr Gln Ala Glu Val Asp Asn Leu Pro
1067 225                               230                              235                              240
1069 Ala Ala Phe Glu Asp Gly Ser Val Asn Gly Gly Asp Arg Pro Gly Gly
1070                               245                              250                              255
1072 Ser Ser Leu Ser Ile Gln Thr Ala Asn Leu Gly Ser His Val Glu Ile
1073                               260                              265                              270
1075 Arg Ala Ala Tyr Ile Gly Thr Thr Ile Ile Val Arg Gln Thr Ala Gly
1076                               275                              280                              285
1078 Gln Leu Ser Phe Ser Ile Arg Val Ala Glu Asp Val Ala Arg Ala Phe
1079                               290                              295                              300
1081 Ser Ala Glu Gln Asp Leu Gln Leu Cys Val Gly Gly Cys Pro Pro Ser
1082 305                               310                              315                              320
1084 Gln Arg Leu Ser Arg Ser Glu Arg Asn Arg Arg Gly Ala Ile Ala Ile
1085                               325                              330                              335
1087 Asp Thr Ala Arg Arg Leu Cys Lys Glu Gly Leu Pro Val Glu Asp Ala
1088                               340                              345                              350
1090 Tyr Phe Gln Ser Cys Val Phe Asp Val Ser Val Ser Gly Asp Pro Asn
1091                               355                              360                              365
1093 Phe Thr Val Ala Ala Gln Ser Ala Leu Asp Asp Ala Arg Val Phe Leu
1094                               370                              375                              380
1096 Thr Asp Leu Glu Asn Leu His Leu Phe Pro Val Asp Ala Gly Pro Pro
1097 385                               390                              395                              400
1099 Leu Ser Pro Ala Thr Cys Leu Val Arg Leu Leu Ser Val Leu Phe Val
1100                               405                              410                              415
1102 Leu Trp Phe Cys Ile Gln
1103                               420
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1107 <211> LENGTH: 366
1108 <212> TYPE: PRT
1109 <213> ORGANISM: Fugu
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1112 Ala Ser Cys Arg Ile Leu Arg Cys Asn Ser Asp Phe Val Ala Ala Thr
1113 1 5 10 15
1115 Leu Asp Leu Gly Ser Ser Ala Gly Ala Gly Gly Gly Ala Pro Leu Ser
1116 20 25 30
1118 Arg Glu Ala Ala Asn Ala Glu Tyr Cys Arg Ala Leu His Ser Tyr Ser
1119 35 40 45
1121 Thr Cys Thr Lys Arg Met Ala Arg Pro Cys Arg Gly Asp Leu Ala Tyr
1122 50 55 60
1124 His Ser Ala Val Gln Gly Ile Glu Asp Leu Leu Ile Gln Tyr Arg Cys
1125 65 70 75 80
1127 Pro Leu Ala Gly Pro Thr Ala Gln Pro Arg Pro Leu Pro Pro Leu Leu
1128 85 90 95
1130 Ser Gly Asp Val Cys Leu Tyr Asp Arg Arg Leu Ala Ala Ala Glu Ala
1131 100 105 110
1133 Pro Gln Pro Asp Tyr Leu His Cys Gly Val Phe Gly Asp Pro His Ile
1134 115 120 125
1136 Arg Thr Phe Asn Asn Asp Phe His Thr Cys Ala Val Gln Gly Ala Trp
1137 130 135 140
1139 Pro Leu Ile Asp Asn Asp Phe Leu Tyr Val Gln Ala Thr Ser Ser Pro
1140 145 150 155 160
1142 Thr Arg Arg Gly Thr Gln Ala Thr Met Leu Thr Lys Ile Thr Val Ile
1143 165 170 175
1145 Val Lys Ser Trp Arg His Cys Val Asp Gln Gln Leu Tyr Gln Ala Glu
1146 180 185 190
1148 Leu Asp Asp Val Pro Met Ala Phe Ala Asp Gly Ser Val Val Ser Gly
1149 195 200 205
1151 Glu Arg Arg Gly Gln His Thr Leu Ala Ile Thr Gln Ser Pro Gly Arg
1152 210 215 220
1154 His Ala Glu Ile Arg Ala Ala His Ile Ala Thr Val Ala Ser Gly Gln
1155 225 230 235 240
1157 Ser Gly Arg Ser Leu Ser Leu Ser Val Tyr Ser Pro Arg Ser Val Val
1158 245 250 255
1160 Glu Ala Phe Gly Pro Glu Gln Asp Leu Gln Leu Cys Met Trp Gly Cys
1161 260 265 270
1163 Pro Ala Ser Gln Lys Leu Ser Thr Pro Pro Pro Thr Ser Ser Thr Phe
1164 275 280 285
1166 Ser Ala Ala Val Leu Ala His Cys Asp Ala Leu Leu Pro Val Arg Asp
1167 290 295 300
1169 Val Tyr His Gln Ala Cys Ile Phe Asp Leu Ile Thr Ser Gly Asp Leu
1170 305 310 315 320
1172 Asn Ser Ser Gly Ala Ala Ile Ser Ala Leu Gln Asp Ala Gln Lys Leu
1173 325 330 335
1175 Ile Ser Asp Pro Lys Arg Val His Leu Leu Ser Pro Thr Ser Ala Ala
1176 340 345 350
1178 Gln Arg Glu Asp His Leu Cys Leu Leu Leu Leu Leu Ser
1179 355 360 365
1182 <210> SEQ ID NO: 28
1183 <211> LENGTH: 432
1184 <212> TYPE: PRT

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Input Set : A:\Xenon 154.txt

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1191 Pro Val Phe Leu Cys Ile Phe Pro Pro Val Thr Ser Pro Cys Lys Ile
1192          20          25          30
1194 Leu Lys Cys Asn Ser Glu Phe Trp Ala Ala Thr Ser Gly Ser His His
1195          35          40          45
1197 Leu Gly Ala Glu Glu Thr Pro Glu Phe Cys Thr Ala Leu Arg Ala Tyr
1198          50          55          60
1200 Ala His Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp Leu Ala
1201 65          70          75          80
1203 Tyr His Ser Ala Val His Gly Ile Asp Asp Leu Met Val Gln His Asn
1204          85          90          95
1206 Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr Leu Pro
1207          100         105         110
1209 Pro Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile Cys His Tyr
1210          115         120         125
1212 Glu Lys Ser Phe His Lys His Ser Ala Ala Pro Asn Tyr Thr His Cys
1213          130         135         140
1215 Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp Thr Phe Gln
1216 145         150         155         160
1218 Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn Asn Tyr Leu
1219          165         170         175
1221 Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser Ser Ala Thr
1222          180         185         190
1224 Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Ser Phe Gln Glu Cys Val
1225          195         200         205
1227 Glu Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro Ala Ala Phe
1228          210         215         220
1230 Ala Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala Asn Ser Leu
1231 225         230         235         240
1233 Lys Ile Thr Glu Lys Val Ser Gly Gln His Ile Glu Ile Gln Ala Lys
1234          245         250         255
1236 Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg Tyr Leu Thr
1237          260         265         270
1239 Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val Glu Asp Arg
1240          275         280         285
1242 Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro Leu Asn Gln
1243          290         295         300
1245 Gln Ile Asp Phe Gln Thr Phe Arg Leu Ala Gln Ala Ala Glu Gly Arg
1246 305         310         315         320
1248 Ala Arg Arg Lys Gly Pro Ser Leu Pro Ala Pro Pro Glu Ala Phe Thr
1249          325         330         335
1251 Tyr Glu Ser Ala Thr Ala Lys Cys Arg Glu Lys Leu Pro Val Glu Asp
1252          340         345         350
1254 Leu Tyr Phe Gln Ser Cys Val Phe Asp Leu Leu Thr Thr Gly Asp Val
1255          355         360         365
1257 Asn Phe Met Leu Ala Ala Tyr Tyr Ala Phe Glu Asp Val Lys Met Leu

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1258 370 375 380
 1260 His Ser Asn Lys Asp Lys Leu His Leu Tyr Glu Arg Thr Arg Ala Leu
 1261 385 390 395 400
 1263 Ala Pro Gly Asn Ala Ala Pro Ser Glu His Pro Trp Ala Leu Pro Ala
 1264 405 410 415
 1266 Leu Trp Val Ala Leu Leu Ser Leu Ser Gln Cys Trp Leu Gly Leu Leu
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 1278 <400> SEQUENCE: 29
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 1326 <400> SEQUENCE: 33
 1327 gcctgggaaa cctggctgga t 21
 1330 <210> SEQ ID NO: 34
 1331 <211> LENGTH: 21

Give Source of Genetic Material?
Same Error

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Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

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Same Error

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Same

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Input Set : A:\Xenon 154.txt

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1478 <220> FEATURE:
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same

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 1561 <220> FEATURE:
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 1581 <211> LENGTH: 20
 1582 <212> TYPE: DNA
 1583 <213> ORGANISM: Artificial
 1585 <220> FEATURE:
 1586 <223> OTHER INFORMATION: Forward replication primer
 1588 <400> SEQUENCE: 55
 1589 cacttgagcc caggaatttg 20
 1591 <210> SEQ ID NO: 56
 1592 <211> LENGTH: 20
 1593 <212> TYPE: DNA
 1594 <213> ORGANISM: Artificial
 1596 <220> FEATURE:
 1597 <223> OTHER INFORMATION: Reverse replication primer
 1599 <400> SEQUENCE: 56
 1600 gactcactgc agccttgacc 20
 1603 <210> SEQ ID NO: 57
 1604 <211> LENGTH: 22
 1605 <212> TYPE: DNA
 1606 <213> ORGANISM: Artificial
 1608 <220> FEATURE:
 1609 <223> OTHER INFORMATION: Forward replication primer
 1611 <400> SEQUENCE: 57
 1612 gtgtgctaca agtttgccga at 22
 1615 <210> SEQ ID NO: 58
 1616 <211> LENGTH: 20
 1617 <212> TYPE: DNA
 1618 <213> ORGANISM: Artificial
 1620 <220> FEATURE:
 1621 <223> OTHER INFORMATION: Reverse replication primer

same

RAW SEQUENCE LISTING

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:46

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

```

1623 <400> SEQUENCE: 58
1624 gcttgaaact gggagttgga                                20
1627 <210> SEQ ID NO: 59
1628 <211> LENGTH: 22
1629 <212> TYPE: DNA
1630 <213> ORGANISM: Artificial
1632 <220> FEATURE:
1633 <223> OTHER INFORMATION: Forward replication primer
1635 <400> SEQUENCE: 59
1636 gggaaatggt cccataattc ct                                22
1639 <210> SEQ ID NO: 60
1640 <211> LENGTH: 19
1641 <212> TYPE: DNA
1642 <213> ORGANISM: Artificial
1644 <220> FEATURE:
1645 <223> OTHER INFORMATION: Reverse replication primer
1647 <400> SEQUENCE: 60
1648 cgccctgcca atatgttct                                    19
1650 <210> SEQ ID NO: 61
1651 <211> LENGTH: 22
1652 <212> TYPE: DNA
1653 <213> ORGANISM: Artificial
1655 <220> FEATURE:
1656 <223> OTHER INFORMATION: Forward replication primer
1658 <400> SEQUENCE: 61
1659 ggtacttagc ctcgaaatga ga                                22
1662 <210> SEQ ID NO: 62
1663 <211> LENGTH: 20
1664 <212> TYPE: DNA
1665 <213> ORGANISM: Artificial
1667 <220> FEATURE:
1668 <223> OTHER INFORMATION: Reverse replication primer
1670 <400> SEQUENCE: 62
1671 gtgtcacaca actggttggt                                    20

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/24/2005
PATENT APPLICATION: US/10/552,158 TIME: 10:47:47

Input Set : A:\Xenon 154.txt
Output Set: N:\CRF4\10242005\J552158.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:13,14,15,16,17,18,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46

Seq#:47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62

VERIFICATION SUMMARY

DATE: 10/24/2005

PATENT APPLICATION: US/10/552,158

TIME: 10:47:47

Input Set : A:\Xenon 154.txt

Output Set: N:\CRF4\10242005\J552158.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:934 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 25 <211> 420 <212> PRT
<213> Mus musculus <400> 25
L:936 M:282 E: Numeric Field Identifier Missing, <211> is required.
L:936 M:282 E: Numeric Field Identifier Missing, <212> is required.
L:936 M:282 E: Numeric Field Identifier Missing, <213> is required.
L:936 M:200 E: Mandatory Header Field missing, <400> is required.
L:1111 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:27 differs:26
L:23 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (62) Counted (61)